1	<u>CLAIMS</u>
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3	\int_{1}^{1} A method, including steps of
4	sending data between a client and a server at an address agreed by said
5	client and said server;
6	wherein said steps of sending data are responsive to a request or a response
. 7	between said client and said server; and
8	wherein said steps of sending data are asynchronous with regard to said
9	request or said response.
	2. A method as in claim 1, wherein
12	said request or said response includes at least some control information;
	and
	said steps of sending data are responsive to said control information.
16	3. A method as in claim, wherein
17	said request or said response includes at least one memory address;
18	said steps of sending data are responsive to said memory address, wherein
19	said data is read from or written to a memory in response to said memory address.
20	
21	4. A system including
22	a client and server;

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1		a NUMA communication link coupled to said client and server;
2	•	a request from said client to server or a response from said server to client;
3	and	
4		a data transfer between said client and server;
5		wherein said data transfer has a time that is decoupled from a time of said
6	request or res	ponse; and
7		wherein said data transfer has a location that is mutually agreed between
8	said client and	d server.
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<u>U</u> 10		5. A system, as in claim 4, also including a byte serial communication
	link.	
		6. A system as in claim 4, wherein
		either said client or server performs processing of information in said data
13 14 15	transfer;	
<u> </u>		said processing is performed in an order convenient to both said client and
16	server; and	
17		said order is decoupled from an order of said data transfer.
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19		7. A system as in claim 4, wherein said data transfer is responsive to
20	control inforr	mation in said request or response.
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l	8. A system as in claim 4, wherein said data transfer is responsive to
2	said request or response.
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4	9. A system as in claim 4, wherein said data transfer uses said NUMA
5	communication link.
6	
7	10. A system as in claim 4, wherein said mutually agreed location is
8	responsive to control information in said request or response.
9	
ብ ሀ10	11. A system as in claim 4, wherein said request or response uses said
	byte serial communication link.
_	12. A system including
113 113 114 114 115	a server, said server having a memory including a client communication
	region and a data transfer region;
16	a remote DMA communication link coupled to said data transfer region;
17	said client communication region information regarding a data
18	transfer into or out of said data transfer region;
19	said data transfer being decoupled in time from said client request region.
20	
21	13. A system as in claim 12, including a byte serial communication link
22	coupled to said client communication region.

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1	14. A system as in claim 12, including a processing element in said
2	server coupled to said data transfer region, said processing element responsive to a
3	request from a client or a response to a client.
4	
5	15. A system as in claim 12, including a processing element in said
6	server coupled to said data transfer region, said processing element responsive to control
7	information in said client communication region.
8	
_9	16. A system as in claim 12, including a processing element in said
발 [취0 [최	server coupled to said data transfer region, said processing element using information in
9 195951 12	said data transfer region independently of said remote DMA communication link.
	17. A system as in claim 12, including a request from a client or a
1 4	response to said client having information regarding a location within data transfer
□ □15	region.
16	
17	18. A system as in claim 12, wherein said client communication region
18	stores a request from a client or a response to said client.
19	
20	19. A system as in claim 12, wherein said data transfer region stores a
21	data transfer to or from a client.

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1	20. A system as in claim 12, wherein said remote DMA communication
2	link includes a NUMA communication link.
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4	21 A method including
5	communicating file system requests and responses between a client and a
6	file server;
7	sending data between said client and said file server using a memory access
8	operation at an address agreed by said client and said file server, wherein said address is
9 9 9 1510	responsive to information in said requests or said responses.
9 55 50 51 51 51 51 51 51 51 51 51 51 51 51 51	22. A method as in claim 21, wherein said memory access operation includes a DMA operation.
13 14 14 15	23. A method as in claim 21, wherein said memory access operation
15 16	includes a remote DMA operation.
17	24. A method as in claim 21, wherein said client includes a database
18	server.
19	
20	25. A method including
21	communicating database requests and responses between a client and a
22	database server;

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sending data between said client and said database server using a memory access operation at an address agreed by said client and said database server, wherein 2 said address is responsive to information in said requests or said responses. 3 4 A method including 26. 5 communicating requests and responses between a client and a server; 6 sending data between said client and said server using a memory access 7 operation at an address agreed by said client and said server, wherein said address is 8 responsive to information in said requests or said responses. 9 09590011 112 135014 A method as in claim 26\including 27. receiving said data at one of said client or at said server in a first order; and processing said data at said one device in a second order unrelated to said first order.

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